

Sumner County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/30/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 18 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Sumner County economy.¹

These 18 sectors have a total direct output of approximately **\$343.8 million** and support **1,402.5 jobs** in Sumner County. Running the model for all 18 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Sumner County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	1,402.5	13.53%	\$64,616,626	9.74%	\$343,844,567	51.85%
Indirect Effect	168.5	1.63%	\$12,252,595	1.85%	\$23,589,960	3.56%
Induced Effect	114.3	1.10%	\$7,617,043	1.15%	\$13,428,034	2.02%
Total Effect	1,685.4	16.25%	\$84,486,264	12.74%	\$380,862,561	57.43%

As shown in the above table, agriculture, food, and food processing sectors support **1,685.4 jobs**, or **16.25%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$380.9 million, roughly 57.43% of the economy.**

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 18 agriculture, food, and food processing sectors is approximately **\$84.5 million**, or **12.74% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **12.74% of the total economy.**

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

1 Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

2 Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

3 Value added = labor income + indirect business taxes + other property type income.

4 GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

5 Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **591.4 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Sumner County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	591.4	\$57,390,681
Grain farming	318.1	\$95,552,110
Animal, except poultry, slaughtering	201.5	\$148,585,528
All other crop farming	133.4	\$8,243,583
Landscape and horticultural services	69.2	\$1,744,729
Real estate	33.2	\$3,783,099
Monetary authorities and depository credit intermediation	25.8	\$4,218,130
Truck transportation	25.1	\$4,289,721
Dairy cattle and milk production	23.0	\$7,715,358
Support activities for agriculture and forestry	23.0	\$1,949,033

The animal, except poultry, slaughtering sector directly contributes approximately **\$148.6 million** to the Sumner County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	201.5	\$148,585,528
Grain farming	318.1	\$95,552,110
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	591.4	\$57,390,681
Oilseed farming	19.5	\$17,759,468
All other crop farming	133.4	\$8,243,583
Dairy cattle and milk production	23.0	\$7,715,358
Truck transportation	25.1	\$4,289,721
Monetary authorities and depository credit intermediation	25.8	\$4,218,130
Wholesale trade	18.4	\$4,111,679
Owner-occupied dwellings	0.0	\$4,062,628

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Sumner County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	19.5	\$17,759,468.08
Grain farming	318.1	\$95,552,108.76
Vegetable and melon farming	0.1	\$19,410.89
Fruit farming	0.9	\$73,731.75
Tree nut farming	0.02	\$5,307.94
Greenhouse, nursery, and floriculture production	3.9	\$517,651.26
Cotton farming	3.1	\$770,060.42
All other crop farming	133.4	\$8,243,582.73
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	591.4	\$57,390,678.41
Dairy cattle and milk production	23.0	\$7,715,357.78
Poultry and egg production	0.3	\$183,215.45
Animal production, except cattle and poultry and eggs	4.6	\$497,567.45
Animal, except poultry, slaughtering	201.5	\$148,585,525.51
Bread and bakery product, except frozen, manufacturing	8.8	\$1,024,733.90
Frozen cakes and other pastries manufacturing	0.5	\$81,730.16
Wineries	7.9	\$2,140,159.61
Veterinary services	16.4	\$1,539,539.81
Landscape and horticultural services	69.2	\$1,744,729.28

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Sumner County, the retail sector was omitted.